Customer Service: (469) 322-0080 | customerservice@dbspectra.com
Technical Support: (469) 322-0078 | tech@dbspectra.com
Web: dbspectra.com

VHF Antenna – Omnidirectional, Low-PIM/Hi-PIP, 5.5 dBd

Models: DS1G06P36U Series Antenna

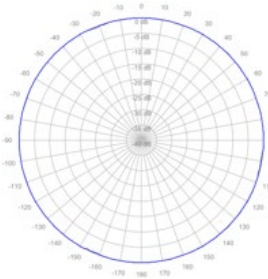
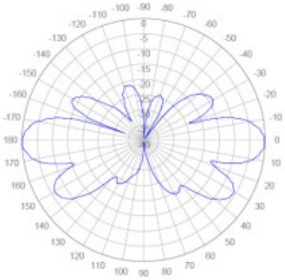
Specifications	
Design Type	True Corporate Feed, Single Omni
Frequency Range	160–174 MHz
Passive Intermodulation – PIM (2 x 20W source)	-150 dBc, 3rd Order
Bandwidth	14 MHz
Gain (average over BW)	5.5 dBd
Beam Tilt (electrical downtilt)	0°, 6°
Vertical Beamwidth (E-Plane)	16°
Impedance	50 Ohms
VSWR / Return Loss	1.5:1 / 14 dB (min)
Average Power Rating	500 W
Peak Instantaneous Power	25 kW
Polarization	Vertical
Lightning Protection	Direct Ground
Connector Options	4.3-10 (F) and 7/16 DIN (F)
Equivalent Flat-Plate Area	4.4 sq. ft.
Lateral Windload Thrust	164 lbf. @ 100 mph
Rated Wind Speed	125 mph (without ice) 106 mph (with ½" radial ice)
Total Length	22 ft
Mounting Mast OD and Length	2.5 in OD x 35 inches
Mounting Hardware (included)	**DSH3V3N (H.D. Low-Torsion Mount)**
Top Sway Brace	DSH2H3S (recommended for side mounting, order separately)
Radome Color	Horizon Blue
Radome O.D.	3.0 in
Weight, antenna and hardware	87 lb
Shipping Weight	110 lb
Invertibility	0˚ electrical downtilt models are invertible. For other invertible tilt options contact dbSpectra at tech@dbspectra.com
Ordering Information*	
4.3-10 Connector:	DS1G06P36U(x)M
7/16 DIN Connector:	DS1G06P36U(x)D
*Replace (x) in the model number with the desired Beam Tilt (i.e., 6). Use "-" for 0° downtilt.	

Features and Benefits

- Tested to stringent Peak Instantaneous Power (PIP) levels of 25 KW using dbSpectra's multi-channel P25 PIP test bed. High PIP level is demanded by today's digital systems.
- PIM-rated Design – 3rd-Order performance better than -150 dBc.
- True Corporate Feed Array – provides for excellent gain and pattern consistency across a wider frequency range.
- Sturdy Construction – Heavy-wall fiberglass radome minimizes tip deflection.
- Excellent Lightning Protection – heavy internal conductor DC ground.

Radiation Patterns (typ.)

Horizontal



Vertical (No Tilt)